Data Cleaning with Open Refine



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Data Visualization Services

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Alison Blaine

Karen Ciccone





Visualization

A good data visualization can expose new patterns and relationships in your data and help you communicate about it more clearly. We can help you:

- use visualization spaces and technologies
- > use GIS and online mapping software
- > learn how to create more effective data visualizations
- > visualize research impact

Visualization Spaces

The Libraries provides spaces and technologies for highresolution, immersive, 3D, and interactive displays of research data. We provide boilerplate facilities descriptions for inclusion in grant proposals. Contact us for more information and assistance.

WORKSHOPS

JAN

Getting Started with Data Visualization: Tools for Research!

15 F

11:00 AM to 12:00 PM

JAN

Creative Coding Group 12:15 PM to 1:15 PM

15

JAN

Visualize Your Data with Tableau

27

3:00 PM to 4:00 PM

JAN

Data Cleaning and Analysis Tips and Tools: Excel and Open Refine

11:00 AM to 12:00 PM

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Data Visualization Process

- getting data
- getting to know the data
- setting goals
- determining if a visualization is needed
- deciding what to visualize
- cleaning
- visualizing
- potentially re-visualizing it with a different tool
- exporting/embedding

Data cleaning

Cleaning data means removing problematic characters, whitespaces, symbols, errors, missing elements and inconsistencies.

Tools:

- Open Refine
- ASAP Utilities for Excel
- Data cleaning using code in R or SAS

Raleigh

Raleigh, NC

Raleigh, N.C.

Raleigh, NC 27695

Raleigh, NC USA

Open Refine

- Formerly owned by Google, now maintained by independent developers.
- Free, open source tool that makes it easy to clean and transform large data sets.
- You can find problems in your data set without knowing about them in advance.
- Requires downloading the software in order to use (http://openrefine.org/download.html)
- GREL documentation: <u>https://github.com/OpenRefine/OpenRefine/wiki/GREL-Functions</u>

Today's workshop materials

go.ncsu.edu/refine